That which is claimed is:

- A transgenic, non-human mammal, wherein said mammal contains at least one FLP recombination target site in the genomic DNA thereof.
- A transgenic, non-human mammal according to claim 1, wherein said FLP recombination target site is positioned within at least a portion of one or more gene(s) of interest.
- A transgenic, non-human mammal according to claim 1, further comprising a nucleotide sequence encoding, and capable of expressing, in transgenic, non-human mammals, a FLP recombinase.
- A transgenic, non-human mammal according to claim 1, further comprising FLP recombinase.
- A transgenic, non-human mammal according to claim 1, wherein said mammal is a mouse.
- A transgenic, non-human mammal according to claim 1, wherein said mammal is a rat.
- A transgenic, non-human mammal according to claim 1, wherein said mammal is a monkey.
- A transgenic, non-human mammal according to claim 1, wherein said mammal is a hamster.
- A transgenic, non-human mammal according to claim 2, wherein said gene(s) of interest provide a readily analyzable marker feature to the host system.

- 10. A transgenic, non-human mammal according to claim 9, wherein said marker is selected from the group consisting of β -galactosidase, thymidine kinase, tyrosinase, and antibiotic resistance.
- A transgenic, non-human mammal according to claim 1, wherein said
 FLP recombination target site has the sequence:
- 5' GAAGTTCCTATTCTCTAGAAAGTATAGGAACTT 3', or functional equivalents thereof.
- 12. A transgenic, non-human mammal according to claim 2, further comprising an additional DNA fragment, wherein said additional DNA fragment is selected from:
 - (a) at least a second portion of said first gene of interest, or
 - (b) at least a portion of a second gene of interest;

wherein said second DNA contains at least one FLP recombination target site; and wherein said second DNA, when combined in reading frame with said first DNA, provides a functional gene.

- 13. A transgenic, non-human mammal according to claim 2, further comprising an additional DNA fragment, wherein said additional DNA fragment is selected from:
 - (a) at least a second portion of said first gene of interest, or
 - (b) at least a portion of a second gene of interest;

wherein said second DNA contains at least one FLP recombination target site; and wherein site-specific recombination disrupts the function of said first gene of interest.

 A transgenic, non-human mammal according to claim 13, wherein said function is colorimetrically detectable, immunologically detectable or genetically detectable.

- A transgenic, non-human mammal according to claim 3, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.
- 16. A transgenic, non-human mammal according to claim 4, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.
- 17. A transgenic, non-human mammal according to claim 9, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.
- 18. A transgenic, non-human mammal according to claim 12, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.
- A transgenic, non-human mammal according to claim 13, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.